

FLEAS? Never Again!

Natural no longer means ineffective. Take a minute to find out how to get the best use of the *best non-toxic* flea control available today. They work! We guarantee it!



Pet professionals such as the **groomers**
(*who deal with dozens of flea-infested animals every day*)
and breeders
(*who keep puppies as well as adults*),
don't have fleas in their own homes.
What do they know that you don't?
Nothing, if you read the information on this eBook.

Long-term freedom from fleas is only possible
if you have a solid grasp of that it takes to **get rid of them in the first place**
and what it takes to
keep your home and pets free of fleas permanently.

A **lot of changes** have taken place in the last few years in the field of
controlling pests **with safer methods**.
Read on to find out how.

FLEAS? Never Again! is an environment-friendly company
and urges you to take advantage of the
many **new and environmentally responsible products** available today.
We'll show you how.



FLEAS? Never Again!

About The Author

Francie Stull

Kristull Borzoi and Silken Windhounds

Hounds Born of the Wind

The home of 209 Champions,
all owner and/or breeder handled!

We don't usually spend much time talking about ourselves, but the fact is, we could not have set the records with our dogs that we did without the use of the products and program that is offered right here on these pages.



You see, in 1986, the Kristull Borzoi Kennel got to be a test case for Torus, the first indoor-outdoor Insect Growth Regulator. It is embarrassing, but it is true that our fleas and ticks were SO bad that they couldn't have found anybody better to test the product.

It wasn't like we hadn't used everything that we could think of. Our place was a toxic waste dump, and I am surprised that we didn't glow at night. I had been desperate enough that I had spread out Diazanone granules and hosed it in with Dursban! I filled a pump sprayer with diluted rubbing alcohol to spray down the dogs. When they got wet, the water was colored red by the flea specks left in their coats. We sprayed, we poisoned, we misted, we bombed, we fogged, we bathed, we applied Spoton for cattle and pigs, and then we bought a flame thrower to singe the ticks out of the tree bark and nearly burned down the house!

We quit showing at the dog shows because
the flea allergies had destroyed the

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on our wonderful friends. I remember going to one of our last shows and when my dog got up, there were ticks and fleas running everywhere on the concrete slab where he had been sleeping. I couldn't stand it anymore.

What was I doing wrong? Nothing. There were no choices back then. The only thing offered was to use more and stronger insecticides, but they weren't working any longer. The fleas seemed to be immune to Dursban and Diazanone. They had started laughing at Sevin Dust years before, and they took baths in Malathion.

The government forced the manufacturer to take Chlorodane off the market because it stayed in the soil for years and years, and then the only thing left was Lindane. There HAD to be something better.



Surprisingly enough, the new Insect Growth Regulators were not developed for fleas at all, but for fire ants. It was first sold as Logic Fire Ant Bait, where the workers would take the treated bait down to the queen, she would eat it and her eggs would never hatch. Within 30 days, the current workers would have worked themselves to death with no new generations to take over and help them out. The queen died of neglect, and best of

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all -- NO poisons were spread in the soil! What a wonderful concept!

In the late 80's the company finally came out with a liquid form of Insect Growth Regulator designed to be used to fight fleas. It was called Torus and we were told to spray it out on our land and in the house and see what happened. What happened? Nothing -- at first. Since we didn't use an insecticide with it (remember we are supposed to be testing the IGR only) the adult fleas were still there.

Then, I remember about a month later, we got up and my husband said, "It seems like we used to have fleas out here." I started looking and he was right. The old fleas had died out and, with no new generations taking their place, there were no more fleas on our dogs! And the ticks were gone too!

Flies, mosquitoes, lice, mites and cockroaches are all affected by the IGR's that stop the eggs and larvae from developing. Now, it won't touch spiders and scorpions, because they don't go through a larval stage. But at the same time, it won't harm your plants, dogs, cats, puppies, kittens, kids or yourself because none of those go through a larval stage. It is absolutely species specific and non-toxic. It doesn't even kill fleas, it just won't let them change phase and they die as eggs or larvae without ever advancing to the biting adult stage.



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That was in 1988. For the last decade, we have used the Insect Growth Regulators, Torus and then Archer, to keep fleas from returning to our kennel and home. Even when we moved in 1992, we went in a couple of weeks ahead of time, sprayed with the IGR's and cleared the new place of fleas AND fire ants before we even moved in. It can be done and it is not as hard as you think. Jump in there, do it right the first time and see what it is like to never have fleas again!

So, if you are reading this, then you probably have fleas and are ready to get rid of them permanently like we did. *Read on.* Learn more than you ever wanted to know about the lowly flea.



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Pet Treatments

Fleas pass through a complete life cycle of four stages

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Chapter 1

The Solution for Fleas

Never Underestimate The Opposing Force

The Enemy:

Fleas are hardy and determined: designed to be uncrushable and unfathomable. And they have to be dealt with in a ruthless manner.

Fleas are nasty and driven. They CAN be killed, but their resilience and 4-stage [life-cycle](#) make it more difficult than most people want to believe. Additionally, the fact that fleas don't spend most of their time on the pet makes the problem of locating them and wiping them out even harder.

See Chapter 2 -- [Does my pet have fleas?](#)

Their most resilient stage, the tiny hibernating cocoon, can live in your environment over a year without feeding and is protected by an impenetrable shell. It is this stage that survives most treatments and returns to breed and re-populate year after year like a cruel sequel to a horror movie.



One "hatched" cocoon can produce over a trillion decedents in her 9-month adult stage life span. This army is able to "raise the dead" to replace any mortalities you might inflict and continue to fight year after year.

See Chapter 3 -- [Life Cycle of the Flea](#)

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Split Your Troops and Fight on All Fronts.

The Secret: It's not really a secret. It's something no one wants to hear. Treating your pets is not enough!

New pet treatments have added to the arsenal of weapons available for fighting fleas, but the battle must still be fought on 3 fronts in both the Present and the Future: Pets, House and Yard: Now and Tomorrow.



Pets act like small minesweepers, collecting hatched and hungry fleas from everywhere. Treating the pets is essential for their own comfort as well as to kill any errant fleas entering the area from afar.

Fleas can jump over 6 feet, and they enter the house by any carrier available: pets and humans. White clothing, socks, and sneakers excite and invite them right into the living room where they remain unseen and happily reproducing without your ever knowing until the problem is advanced. Treat your entire square footage indoors including garages, outbuildings, and doghouses or kennels.

You simply cannot allow a single flea to survive in your or your pet's, environment if you want to live a life free of allergies, disease, and irritation.

The yard is the most arduous task, but you **MUST** treat the area outdoors with just as much determination as you treat the pets and house.

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If you neglect ONE place in your yard, car, garage, summerhouse, winter house or chateau on the Riviera, fleas will ultimately come back to occupy all of these locations and more.

Arm Yourself Well

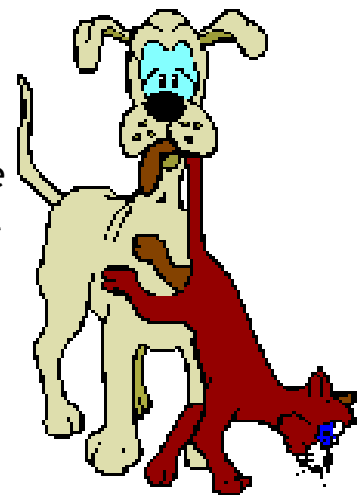
Pets: Most people want to know how to solve the immediate crisis first. Start with fleas ON your pets. But don't stop there.

On-pet Flea products have changed radically in the last 3-5 years. The new ones are safer, easier, and more effective.

Monthly Spot Applications:

Spot Treatments are the new front line in the flea battle. Applied only once a month, some will actually repel a significant number of fleas - a great benefit to the allergic pet that cannot tolerate even one bite. The best will also help prevent re-infestation by rendering the fleas unable to reproduce.

But, be careful. More expensive is not always more efficient. The battle against fleas is matched only by the battle of the giant manufacturers to get every dollar out of their spot-on products. Great strides are being made this year in lowering cost AND in treating CATS.



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Shampoos:

Most well stocked flea armories contain a flea and tick shampoo. Shampoos kill fleas on the pets and give them instant relief. They represent the best of two worlds: clean AND flea-free. Unfortunately, most flea shampoos contain detergent that removes the very oil layer that the topical flea drops bond to. If you bathe your dog, it is best to wait three days for the oil layer to regenerate before reapplying the Frontline or Advantage. If you want to kill the current adult fleas with toxins, good ol' Ivory Dishwashing Liquid does a credible job. We choose Ivory because it does not contain any colors, fragrances or other chemicals. Actually, any dish liquid would work since it breaks down the flea's waxy coating and they dehydrate and die. The secret is to leave it on for at least 15 minutes, which is an eternity with a wet cat, we know. In the summer, the dog can be turned loose to play after sudsing and brought back to be rinsed after the 15 minutes.



Powders:

Flea and tick powders can be easy and convenient to use, but they often present problems with dry skin. They can be breathed into the lungs and ultimately don't do as good of a job anyway. They have been eclipsed by other more favorable means of flea protection like Frontline and Advantage.

Flea Collars:

These are a possible weapon in the battle, but not all collars are created equal. Many have harsh and potentially dangerous chemicals, and their placement around the neck can lead to serious compromise of the nervous system if improperly used or mixed with other toxic agents. They can be deadly to cats, which should give a good idea of their toxic potential.

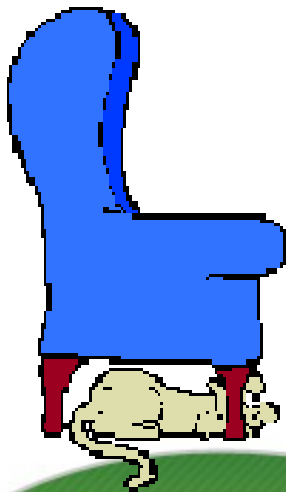
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Essential Herbal Oils:

These are nature's repellants. They ward off unwanted hitchhikers. Most common ingredients are citronella, cedar, eucalyptus, lemongrass, and lavender. Essential Oils are specially formulated to repel fleas and ticks without using insecticides. They are great for misting your dog's legs (and your own) any time that you go out where fleas would be likely to be found. They have a lot of other uses too. We have a fuller write-up on them in the section on Other Treatments, Chapter 10. They are a repellant, not an insecticide, though, so they will do nothing to help get rid of fleas in you and your pets' environment. They can be found at most good health food stores, and can certainly have their place. They are very toxic to cats, since they clean themselves and ingest what is on their coat, so never use essential herbal oils on cats. See Essential Herbal Oils to find out more.

House Flea Control

House: Now that the pets appear more comfortable, begin the search & destroy missions. House treatments are safer and easier than ever.



Carpet and Floor Sprays:

Adulticides (insecticides for adult bugs) kill adult populations of fleas, and carpet spray aerosols are the easiest and often most effective treatments. There's no mixing. And the most sophisticated, [Ultracide Floor Spray](#) contains both the exterminating and the egg-inhibiting ingredients in one application. A well-armed army will have a carpet aerosol in its weapons' room.

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Bombs and Foggers:

Foggers also contain adulticides and are very convenient for treating large, open areas.

But they lack the ability to treat under furniture such as beds or tables, thus leaving some areas untreated. Not surprisingly, those are exactly the dark, hidden areas that the flea larvae prefer to inhabit. Flea larvae selectively crawl to dark areas under the bed, under the desk, and in the closets. Use foggers only if you also use an aerosol for hard-to-reach places.

Powders:

Powders usually contain ingredients such as Boric Acid, and De-Limonene which kill fleas by physically assaulting their outer body or stomach. They can be very effective, but don't forget that although we are breathing five feet in the air, your pet can sleep with their nose right on the carpet, breathing in those same chemicals. They often leave the battlefield dusty, which can be deadly to computers and close-to-the-floor animals, and are of best use on carpeted surfaces and furniture. This leaves the house covered in a toxic layer of dust and the non-carpeted parts of the house are still left untreated.



Insect Growth Regulators:

No army should ever fight without an Insect Growth Regulator! Without it, you may take the high ground, but you'll never be able to hold it. Insect Growth Regulators render any live fleas unable to reproduce. Consider again that one reproducing flea can have a trillion offspring, and the challenge becomes clear. When you're fighting an enemy with the ability to replace its troops with fresh fighters at that rate, a weapon to stop reproduction is an obvious necessity.

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A good flea site carries only the better aerosols and treatments that already contain the Insect Growth Regulator ingredients for one-step application.

After the first treatment with an insecticide, we recommend only a non-toxic Insect Growth Regulator two or three times a year to keep fleas from ever setting up a battle line again. Better still, treat your house with a liquid preparation of PURE Insect Growth Regulator, [Archer](#) or [FleaFix](#) BEFORE you have a flea problem, and the battle will be won before you even have to fight the first skirmish.

Yard Flea Control

Yard: Leave no stone unturned, no hill unconquered. And pay particular attention to the areas where your pets spend their time outdoors.

Insecticides

Our favorite? [Conquer](#). It is an odorless concentrate that is mixed with water and is very active against fleas. Other target Pests? Just about everything. Although it will work well for fleas by providing a good knockdown and a long residual, it also works for several other household pests.

Dursban(r), Diazinon(tm), & Malathion(tm), along with Lindane and a couple of others, were at one time, the old stand-bys. They were the nuclear weapons in the Battle of the Fleas. Now, however, it is widely recognized that they leave their deadly trace behind in a half-life that is akin to nuclear fall-out.

They smell strong enough to "kill a cow" and give you a secure feeling of having accomplished your mission, but don't be fooled. They

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are less effective for killing fleas as each year passes because fleas have developed ferocious immunities to their nerve-gas-like qualities. Using them is often like firing on your own troops: great body count, but the wrong color uniforms.

Insect Growth Regulators:

No army should ever attempt to take the hill unless they think they can hold it long enough to make it worth while. Don't fight without Archer, an Insect Growth Regulator as your main weapon! Insect Growth Regulators render any live fleas unable to reproduce, and stop any eggs and larvae already laid from developing into biting, breeding adults. Consider again that one reproducing flea can have a trillion offspring, and the need is clear. When you're fighting an enemy with the ability to replace its troops with fresh fighters at that rate, a weapon to stop reproduction is an obvious necessity.

Most Insect Growth Regulators, including Precor, are NOT labeled for outdoor use. But the newest and best, [Archer and FleaFix](#), are resistant to sunlight (photostable) and are a great help in the yard as well as the house. They affect fleas, cockroaches, flies, and mosquitoes too, so their use on a regular basis may help in more battles than just this one.

Flea Snipers Lurk in Every Blade of Grass



FCIA: Flea Control Intelligence Agency

Armed with information about how fleas travel and reproduce, it's not such a daunting task to pick off the small, the few, and the lonely that are looking for a host.

Hungry stragglers will necessarily jump onto your pets where they feast on a blood meal

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before laying eggs. If you've diligently and routinely used [Archer or FleaFix](#), an Insect Growth Regulator in the environment, the reproductive cycle is broken and these few are the last of the enemy troops.

Weekly baths with new all-in-one shampoos (if you like a squeaky clean dog) or monthly spot treatments will kill the little snipers dead.

Hold the Hill & Occupy the Territory

Back To the Future:

Now that the battle has been fought and won, a plan needs to be formulated for preventing further insurrections.



Prevent Fleas from Ever Coming Back: Consider again that one reproducing flea can have a trillion offspring. What will you do in the future if you've missed even one cocoon today or your pet brings home a flea disguised as a house guest tomorrow? How about the neighbor's fleas? Two hops and they're in your yard with an eye on your pet for a great rump roast dinner.

Don't give the stragglers and insurgents a chance to populate again. Insect Growth Regulators make fleas unable to reproduce. We can't say it enough times. No army should ever fight without an IGR.

Re-inoculating your environment with [Archer](#), an Insect Growth Regulator, immediately BEFORE flea season begins (or at the FIRST sign of a flea if you are already into the season), and once during PEAK flea season will protect you in perpetuity. Forever and ever, Amen.

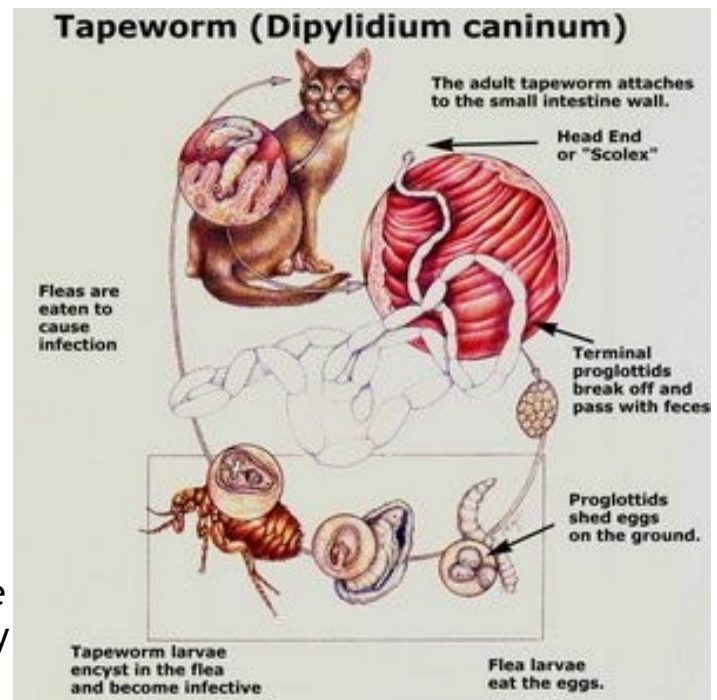
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Recognize the Allies of the Enemy

Even Fleas Have Friends:
Fleas spread parasites and disease.

Of Parasites and Plague:
Bubonic plague is the most famous flea ally although it's questionable how trustworthy an ally the bubonic germ is since it ultimately kills the host. However, if you get rid of the fleas you can get rid of the threat of plague as well.

Additionally, one swallowed flea can lead to a daunting case of intestinal worms in dogs and cats. The [tapeworm](#) is the most common flea ally. Tapeworms count on the fleas to carry their larvae deep into enemy territory: your pet's intestines.



Tapeworm segments look like a tiny piece of rice, often attached to your pet's fur in the anal area or visible in his stool.

Tape worms are probably THE most common worms in household pets. Until now they have been difficult to treat using home-administered treatments, and a visit to your veterinarian was in order. Finally, we now have effective treatments available over the counter containing praziquantel, the most commonly used and highly recommended treatment for Tape Worms. These [Tape Worm Tabs](#) are generic droncit and are 100% effective.

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Ticks aren't really an ally, but they like to inhabit the same territory and can get along with fleas quite well. Most flea-killing products will kill ticks as well, but there are some tick peculiarities that should be addressed if you find yourself in a two-fronted battle with fleas on one side and ticks on the other.



It is important to spray about three feet up on vertical surfaces, including tree bark, house siding, fencing and bushes. Ticks drop on their victims, where fleas jump up from the ground. It is also possible that you will have to come back and spray a second time with your insecticide. Archer stops the tick in the juvenile stages, but we still see that stage and they are harder to kill than most fleas. In fact, if an infested property is cleared of ticks, there will be no fleas left.

Comfort the Survivors

Damage Control: Those most likely wounded during the battle are your pets. If you've used the right products, damage from friendly fire with harsh insecticides has been kept to a minimum. But, flea allergies are one of the most pervasive and expensive by-products of flea infestation, and are a direct result of fleabites.

Flea Allergic Dermatitis (FAD):

Flea Allergy for short. When your pet begins to chew raw or hairless areas, particularly between his hip bones or down the rear of his legs, it is often a sign of a developing incurable skin condition caused by fleabites. Advanced cases often require steroid injections which, while providing relief can be quite damaging to your pet's internal organs

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over the long run, not to mention the horrendous expense of frequent veterinary visits.

Check out Chapter 5 -- [Flea Allergies](#)

Complete protection from flea bites is the only real solution. However, some immediate relief from the itchy symptoms comes in the form of soothing hydrocortisone [sprays](#) and [shampoos](#).

A good hydrocortisone shampoo is a soothing, emollient shampoo. It will contain the maximum hydrocortisone allowed by law (0.5%), and have a rich lather and fresh fragrance.

They are specifically formulated to help relieve itching, scratching, and inflammation associated with pet allergies in dogs, cats or horses, etc.

Even more effective is Hydrocortisone Spray. The same spray used for humans is usually less expensive and just as effective as the high priced prescription products. A bottle is very appropriate in the medicine cabinet, for poison ivy, insect bites, and anything else that makes your or your pet itch.

This chapter has given you a full overview of the way to be honestly free of fleas. For more detailed questions and study, take a look at the following chapters.



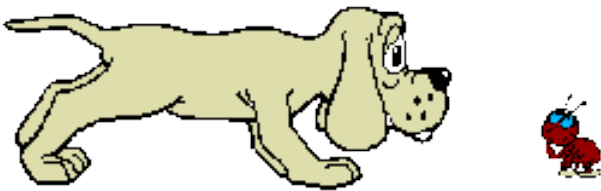
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Chapter 2

Does my pet have fleas?

* If you have seen **one flea** on your dog, **he has fleas**. In almost all cases, there are many more fleas unseen than seen.

* You can check for **flea dirt**, which is actually **tiny specks of dried blood** left by fleas when they bite your pet. **Flea comb** through your pet's coat onto a wet piece of paper towel. **If the specks falling onto the paper turn red, your pet has fleas!** The teeth on a cat flea comb are slightly tighter than for a dog, but you can't beat the ones sold at [FuturePet](#). We have consistently found them the cheapest and most reliable for all pet products.



* Another test to see if a particular room is infested is: **Wear white socks into a room that you suspect has fleas**, that the pets have not been into for awhile. Since fleas are attracted to vibrations, your footsteps will cause them to jump toward you looking for a host. With white socks, **you will see the tiny (usually newly hatched) fleas** that gather. This is not designed for flea control, but if you find more than about five fleas in a single room, you probably have a major infestation to deal with. The adult fleas that you find are just the tip of the iceberg when it comes to the flea population!

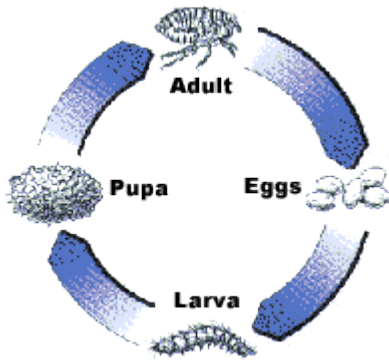
* You can also put a **pie pan half full of water under a small night light over night**. Add a small squirt of dish washing liquid to break the water tension and the fleas will sink and drown. Once again, this will not rid the room of fleas, but it will tell you where the biggest problem areas are.

* **If you find fleas, you have fleas**. You either have fleas or you don't. Just **a few fleas today can be a major infestation by next week.**

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Chapter 3


Flea Life Cycle



Fleas pass through a complete life cycle of **four stages**.

Completion of the life cycle from egg to adult varies from **two weeks to eight months**.

Normally **the female flea lays about 15 to 20 eggs per day** up to 600 in a lifetime.

*The flea population is typically made up of 40% eggs, 30% larvae, 15% pupae  and **only 15% biting adults.***

Usual hosts for fleas are dogs, cats, rats, rabbits, mice, squirrels, chipmunks, raccoons, opossums, foxes, chickens, and humans.

Eggs loosely laid in the hair, **drop out where the pet rests, sleeps or nests** (rugs, carpets, upholstered furniture, cat or dog boxes, kennels, sand boxes, etc.)

Eggs hatch in two days to two weeks into larvae found indoors in floor, cracks and crevices, along baseboards, under rug edges and in furniture or beds.

Outdoor development occurs in sandy gravel soils (moist sand boxes, dirt crawlspace)

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under the house, under shrubs,
etc.) where the pet may rest or sleep.



Sand and gravel are very suitable for flea development

which is the reason fleas are erroneously called "sand fleas."

Larvae are blind, avoid light, pass through three larval stages and take a week to several months to develop.

Their food consists of digested blood from adult flea feces, dead skin, hair, feathers, and other organic debris. (Larvae do not suck blood.)

Pupa mature to adulthood within a silken cocoon woven by the larva to which pet hair, carpet fiber, dust, grass cuttings, and other debris adheres.

In about five to fourteen days, adult fleas can emerge or may remain resting in the cocoon until the detection of vibration (pet and people movement), pressure (host animal lying down on them), heat, noise, or carbon dioxide (meaning a potential blood source is near).



Most fleas survive the winter in the larval or pupal stage and grow best during warm, moist winters and spring.



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Adult fleas cannot survive or lay eggs without a blood meal, but may hibernate from two months to one year without feeding. There is often a desperate need for flea control after a family has returned from a long vacation. The house has been empty with no cat or dog around for fleas to feed on. When the family and pets are gone, flea eggs hatch and larvae move into the pupa stage. The adult fleas fully developed inside the pupal cocoon can remain in a kind of "limbo" for a long time until a blood source is near. The family returning from vacation is immediately attacked by waiting hungry hordes of fleas. (In just 30 days, 10 female fleas under ideal conditions can multiply to over a quarter million different life stages.)

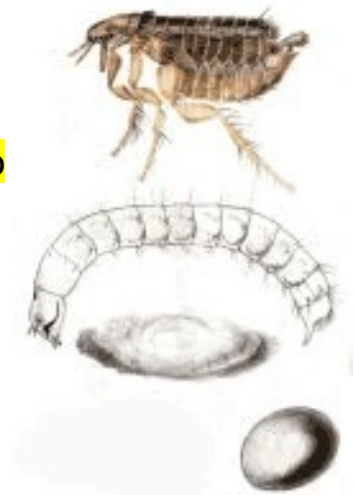
Completely developed adult fleas can live for several months without eating,

as long as they do not emerge from their cocoons. 

Newly emerged adult fleas live only about one week if a blood meal is not obtained.

Optimum temperatures for the flea's life cycle are 70° F to 85° F and optimum humidity is 70 percent.

Breaking the cycle with an [Insect Growth Regulator](#) , not just killing the few adults is the secret to flea control.



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Chapter 3

Flea Allergies

Flea allergy dermatitis, or FAD, is the most common allergic skin disorder in pets.

Here are the symptoms and reasons, below are the answers to help you and your pet find both instant and long-term relief!

Fleas bite and suck blood from a host to feed themselves in the same way that a mosquito does.



Unlike a mosquito, who eats once and goes off to digest its meal, fleas continue to bite a host animal long after their hunger is satisfied.

They do this to produce flea droppings containing undigested blood.

These droppings are very high in protein and iron and are eaten by the immature stage of a flea's life cycle.

A flea bite may leave no mark at all, but it can leave instead a small, red spot surrounded by a reddened halo if the host is sensitive to its bite.



Unless there is an allergic skin reaction, there may not be any swelling.

But many dogs and cats develop an allergic reaction to flea saliva, occasionally producing severe skin reactions.

In dogs, there is no preferred breed or sex for development of FAD. Most cases are observed in dogs between one and six years of age.

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Chapter 4

Insect Growth Regulators FAQ on IGR's

Frequently Asked Questions about Archer and Flea Fix

How does an IGR work?

An Insect Growth Regulator (IGR) breaks the [flea lifecycle](#) by preventing a young flea from growing normally, into the next phase -- a biting, breeding adult.

The first IGR to come out was Precor. It did a wonderful job of interrupting the flea life cycle in the house, but it broke down rapidly in sunlight. So it didn't complete the job of getting rid of fleas in the whole environment.



[Program pills](#) for dogs and cats is technically an IGR. The chemical in the pet's bloodstream stops the baby fleas from being able to hatch out of the egg. This, however, is its downfall. With Program, the flea has to bite the pet, AND CONTINUE TO CHEW ON THE PET for the rest of its life, to be effective.

[Archer](#) and [FleaFix](#) are third generation IGR's that work in the environment. There is no need to feed chemicals to the pets, and they don't easily break down in sunlight. This is true long term control. No flea can reproduce on your property for months at a time either indoors or outdoors. We use Archer because it is so much more economical, but if you have just a small area, then FleaFix is just as good of a choice.

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When should I apply an IGR?

The IDEAL time to treat your environment is before you have fleas. The second best time is RIGHT NOW.

How much Archer should I use?

[ARCHER](#) comes in a 16 ounce tip-and-measure bottle. You mix one ounce of ARCHER in one gallon of water in a pump sprayer. This will easily cover 1500 square feet indoors and in kennel runs. It does not go nearly as far outdoors. We recommend 7-8 ounces in a normal sized back yard.

Will Archer or Flea Fix harm my pets, plants or furniture?

NO. ARCHER stops the eggs and larvae from developing in those insects that go through a larval stage. It does not even kill adult fleas. Although it affects such insects as fleas, ticks, lice, mites, cockroaches and fire ants, it will not harm spiders or scorpions because they don't go thorough a larval stage. Similarly, the active ingredient, pyriproxyfen, will not affect squirrels, birds, puppies, kittens, kids or yourself. It is non-toxic once it dries. ARCHER does not stain carpets or furniture and is practically odor-free. Be sure to treat under the furniture, in closets, and under the cushions of upholstered furniture, anywhere that flea eggs and larvae might have been left or moved to.

Can Archer and Flea Fix be mixed with my insecticide?

Yes. ARCHER has no problem being combined with other liquids. In fact, we have an advanced level pyrethrin called [Conquer](#) that is actually approved for use in the food areas of schools and hospitals because it breaks



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down so rapidly in our environment. So, feel free to apply the insecticide and Archer at the same time. Be sure to follow all instructions and cautions listed with any insecticide.

Why are Archer and Flea Fix better than Precor?

Pyriproxyfen (IGR) does not degrade in direct sunlight like the earlier IGR, methoprene. This means long-lasting flea control in brightly lit rooms and rooms sunlit through open windows. Obviously, Precor is not designed to be used outdoors, but in the house, and outdoors is where much of the flea development typically takes place. This gives Archer a tremendous advantage over the old first-generation IGR, Precor.



How does Archer differ from Program?

[Program](#) is an interesting product that came on the market several years ago. Its active ingredient is lufenuron, which prevents the formation of chitin (pronounced KY-tin). When a larva needs to break out of the egg, it uses an egg tooth made of chitin. Program is given to the dog or cat orally where it is absorbed and enters the bloodstream. The blood is ingested by the female flea when the flea bites the

dog and as the egg is produced, it causes the dysfunction in chitin formation and the ultimate inability of the egg to hatch.

Program, was originally a prescription product, sold by veterinarians only, but is considered over-the-counter now. For it to be truly effective, every pet in the household should be given an appropriate dosage

every month. Unfortunately, if the flea bites an

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untreated animal like a squirrel or neighborhood cat, it can lay perfectly healthy eggs within three days. If your animals are isolated, the flea population should eventually diminish with the use of Program.

But we no longer carry it, since it cannot compare with the newest generation of IGR's like Archer and Flea Fix.

There is no conflict between ARCHER and Program. Since ARCHER, however, protects the property from flea infestation, there should be no reason to use other forms of flea prevention, even Program.

What other steps should I take?

ARCHER is an Insect Growth Regulator. If you currently have adult fleas, we have the products to stop them as well. After one last application of both Archer AND an insecticide to kill of the adult fleas, it will be necessary to use only an IGR since no new fleas will be hatching on your property and it will not be reinfested. An Insect Growth Regulator is truly the answer to the question: FLEAS? Never Again!



NOTE: After application of ARCHER, be sure to leave the grass clippings the next couple of times that you mow the lawn. The ARCHER is bonded to them, they become part of the dirt layer and that is where the eggs and larvae are.

What if adult fleas enter the home after it has been treated?

The adult flea will either die of old age, or the pet may be treated with a

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topical treatment (we recommend Frontline) as necessary. Pets can bring adult fleas in to the home after it has been treated, but no fleas will hatch from any eggs laid, so the house will not be reinfested.

So, what do you need? For the first application, you will need an insecticide like Conquer for the lawn AND Archer. Ultracide does both jobs in the house. Frontline is great on both dogs and cats. For all subsequent applications (two or three times per year), use Archer!

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Chapter 6

House Treatments

Treating the house for fleas is part of our 3-pronged attack. Along with an insecticide plus IGR outdoors, and treating the pet, it is necessary to treat the house with both an Insect Growth Regulator and (if you have current adult fleas) an adulticide. Our choice?

Ultracide Floor and Furniture Spray is THE flea solution in a can.



- A photostable product for control of fleas and ticks.
- Contains an Insect Growth Regulator
- Kills Brown Dog Ticks.
- Kills Fleas and Pre-Adult Fleas
- Also kills roaches, ants, spiders, lice, crickets, centipedes, ticks waterbugs, silverfish and sowbugs.
- Breaks the flea life cycle
- Controls re-infestation for up to 210 days (that's seven months!)

One can of Ultracide will cover 2,600 square feet indoors, killing adult fleas as well as laying down a protective Insect Growth Regulator layer that keeps flea eggs and larvae from developing for half a year at a time.

If you have a flea infestation, use the Ultracide.

If you just want to keep them from coming back, the **Flea Fix** below is for you.

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Flea Fix IGR Concentrate

The newest and most effective Insect Growth Regulator available in the US. Same formula as Archer, but in a smaller size.

- Labeled for both fleas and roaches *indoors and outdoors*
- Can be used on carpets, rugs, furniture, dog kennels, dog houses, and pet sleeping areas
- Is stable in sunlight!
- Is effective on flea eggs and larvae for 7 months and roaches for 6 months.
- Convenient 4 oz bottles with tip-and-measure spout.
- Safest for use in areas with aquariums, birds, reptiles and other delicate pets (with recommended precautions.)
- An Insect Growth Regulator applied over the environment BEFORE the appearance of fleas can help prevent any infestation. Any uninvited pest which your or your pet brings home or which gets into your environment from any other source will be rendered unable to reproduce.



For control of fleas, mix 1 oz. per gallon of water in a pump sprayer for inside use. Each ounce treats up to 1500 sq ft. One bottle treats 6,000 square feet.

For more information on how to use it, check out Chapter 4, FAQ on IGR's



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Chapter 6

Yard Treatments

The yard is an important part of our three pronged attack on fleas. Even if you treat the house and your pet, if fleas are still hatching in the yard, you will have fleas!

To stop fleas from hatching on your property, use the Insect Growth Regulator, **Archer**. To kill already existing adult fleas and stop them from coming back for months at a time, use **Conquer** or another adulticide **AND Archer**.

The yard used to be the biggest problem for ridding the home of fleas. At last, we have an Insect Growth Regulator that stops larval insects in their tracks!



And it is non-toxic!

And it doesn't break down in sunlight!

ARCHER comes in a convenient "tip and measure" 16 ounce bottle.

You simply mix one ounce with a gallon of water in a pump sprayer. This will easily cover 1,500 square feet indoors and in kennels and runs.

Outdoors, it doesn't break down in sunlight - we have found that it takes eight to ten ounces to do a typical back yard.

Concentrate where the dogs spend their time and you can break your flea cycle, too!

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Conquer is a new Residual Insecticide Concentrate with the active ingredient of Esfenvalerate. It controls numerous pests in and around buildings, so it is recommended for Commercial and Industrial use. It is also great for use in and around the home, both in food and non-food areas of: Schools, Office Buildings, Kennels, Food Processing Plants. Of course, it is great for use on Lawns to Kill Fleas AND Ticks.

- Kills fleas
- Kills ticks including the deer ticks that carry and transmit Lyme Disease
- One 16 ounce bottle treats 48,000 square feet of yard
- Use 1 ounce per 3,000 square feet
- Easy to use, just add "Archer" (see above) for COMPLETE outdoor control of fleas!



Outdoor Instructions

For outdoor use, we recommend a [hose-end sprayer](#), you know, the jar that screws on the end of the hose. Put in 2 ounces of Archer and 1 ounce of Conquer per 3,000 sq feet or so and fill the jar with water. Then spray it out until it is all gone and stay off of it until it dries. That will treat the yard. You can buy these sprayers easily at the garden center of Home Depot or [WalMart](#).

For in the house, we mix the same ratio in a [pump sprayer](#). Pump up the pressure, press the button on the little wand and apply a fine mist. Stay off of it until it dries.

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Chapter 7

Pet Treatments

The real secret to ending your flea problems is to use an [Insect Growth Regulator](#) in the environment to stop all flea eggs and larvae from developing into adults.

But if your pets currently have fleas, we understand that you want to kill them NOW.

So once you have your IGR down in the house and yard, the products below are designed to kill fleas on your pets.

Flea collars

Flea & tick collars were introduced in 1964 as an effective and at that time, relatively safe way to protect dogs and cats from fleas and ticks. Collars are made from a special plastic that slowly releases insecticide that kills adult fleas and ticks for weeks or even months. After the specified interval the collars should be replaced to renew the protection.

Prior to the wide-spread use of flea & tick collars, infestations were a constant battle and irritant, not to mention health threat, for pet owners. Over the years there have been many different pesticides incorporated into the plastic collars with varying success. Similar slow-release technology is also used in cattle tags for fly control. When they were introduced flea collars were seen as an excellent solution to a severe problem. They significantly reduced bites on animals that were otherwise under constant attack. However, they had multiple problems. Some animals develop an irritation in the collar area called flea collar dermatitis and the collars are really only effective on the front half of the body, closest to where the collars are worn.



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Because of this, flea and tick collars are generally more effective protection against tick bites because ticks often try to attach around the head and neck. In fact, if you use a flea control medication that does not control ticks, such as Advantage (tm) or Program (tm), you have to add additional protection, such as a flea and tick collar if your pet spends much time outdoors.

Bio Spot

Made by Farnam, it was one of the earliest topical spot-on treatments. As such, it is now one of the worst. The active ingredient is permethran, which is absorbed into the dog's bloodstream. The idea is that the fleas are drinking poisoned blood and you're thinking, "what's wrong with this picture?" It is cheap, and unfortunately deadly to cats. We don't think it is very good for dogs either. Like other spot-ons, they added an IGR, but they chose methoprene, which is the old Precor, that breaks down in sunlight. So, not only is the insecticide toxic to the animals, but the IGR does not stay effective. Cheap is not always the best, and in this case, it certainly is not.



How to apply topicals to a small dog

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Advantage

According to the manufacturer, Advantage stops fleas from biting in 3-5 minutes, kills 98-100% of fleas within 12 hours of application, kills re-infesting fleas within two hours and lasts up to a month. The cheapest place that we have found to get it is Advantage-for-Dogs.com. Advantage is good, but not necessarily the best. It has a higher rate of reported

Promeris and Comfortis

These are newer and therefore more expensive spot-on treatments. We have not found them better than our favorite, Frontline.

Frontline

Why Frontline?

- #1 veterinarian-recommended flea and tick protection.
- Proven protection. Frontline killed 100% of fleas within 12 hours of application.
- Long lasting: continues to kill fleas and ticks all month long
- Approved for use on puppies and kittens 8 weeks of age and older and on breeding, pregnant or lactating cats and dogs.
- Waterproof: effective even after swimming, bathing and grooming.

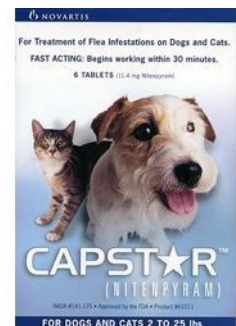
If you choose to buy your Frontline at the vet, be sure to print out this [coupon](#) first. It still won't make your Frontline cheaper than you can buy on the web, like [here, for instance](#), but for those who insist on getting it at the vet, it will save you money.

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Capstar

There is also a place for Capstar. It has no residual, but it does kill the fleas on the pet almost instantly.

- Capstar works extremely fast.
- Adult fleas begin to die within only 30 minutes of administration. In 7 hours 100% of the adult fleas that are on your dog will be dead - leaving your pet flea-free and comfortable.
- Capstar can be given with or without food.
- Capstar can be given to your pet anytime of the day when fleas are bothering your dog.
- Safe for pregnant or nursing dogs and cats
- Safe for puppies or kittens 4 weeks of age or older and 2 pounds of body weight or greater
- If the pet gets re-infested with fleas you can safely give another dose of Capstar as often as one dose a day.
- Capstar does not take the place of a topical like Frontline, that continues to work for a month at a time, but for instant relief, it can't be beat.



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Chapter 9

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We could not have done this ebook without the generous help of the folks at: FleaSmart.com . To show that they know what they are talking about, we are including a coupon for 5% off of any order over \$50.



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Frontline for Dogs